



# Workshop 2: Renewable Energy and the Sea –Technological Innovation – European Maritime Day 2010

Directorate-General  
for Energy



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**gijón 2010**  
European Maritime Day  
Stakeholder Conference, 18-21 May



*Sustainability*

*Security of supply*

**Goals of**  
**EU energy policy**

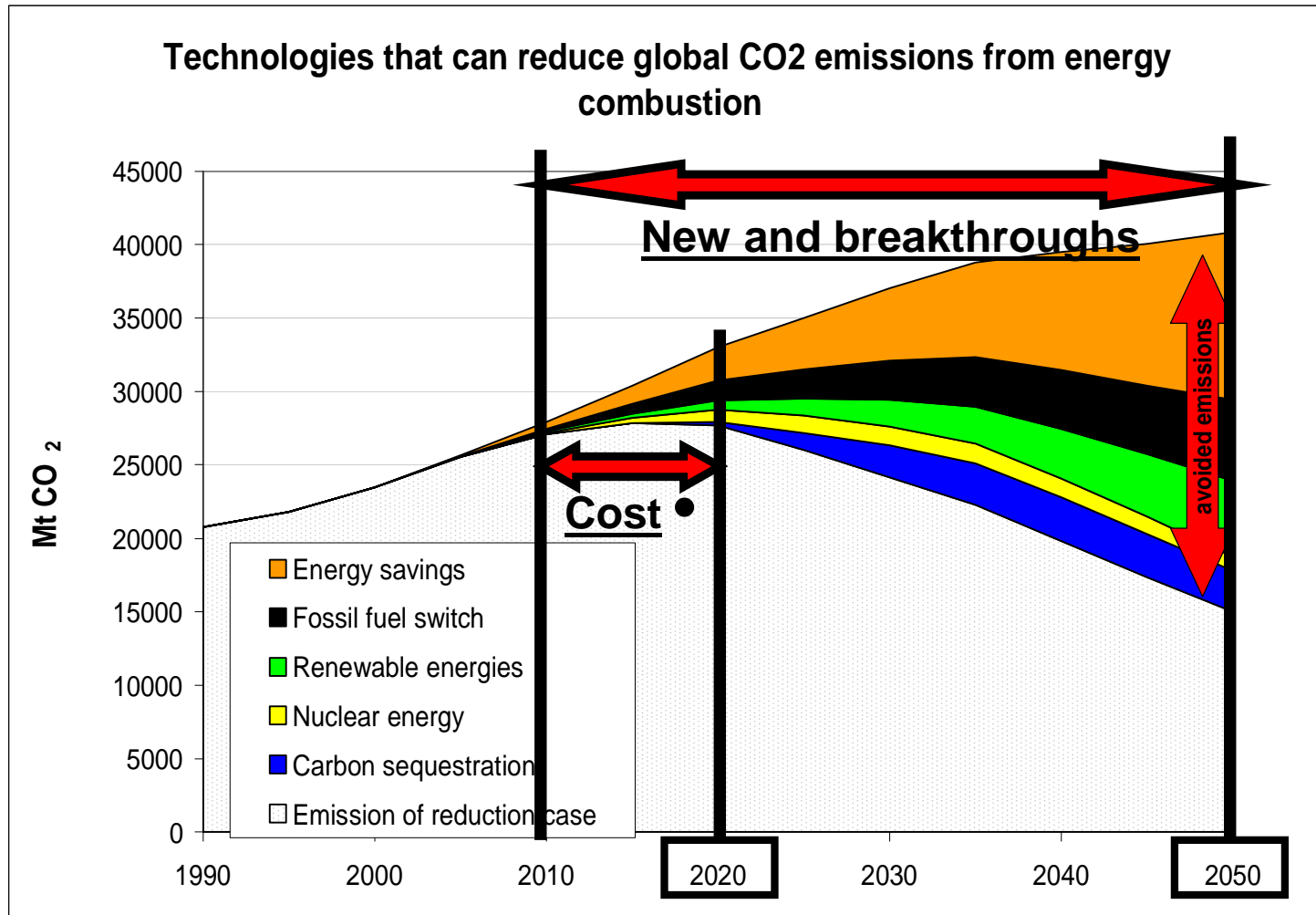
*Competitiveness*



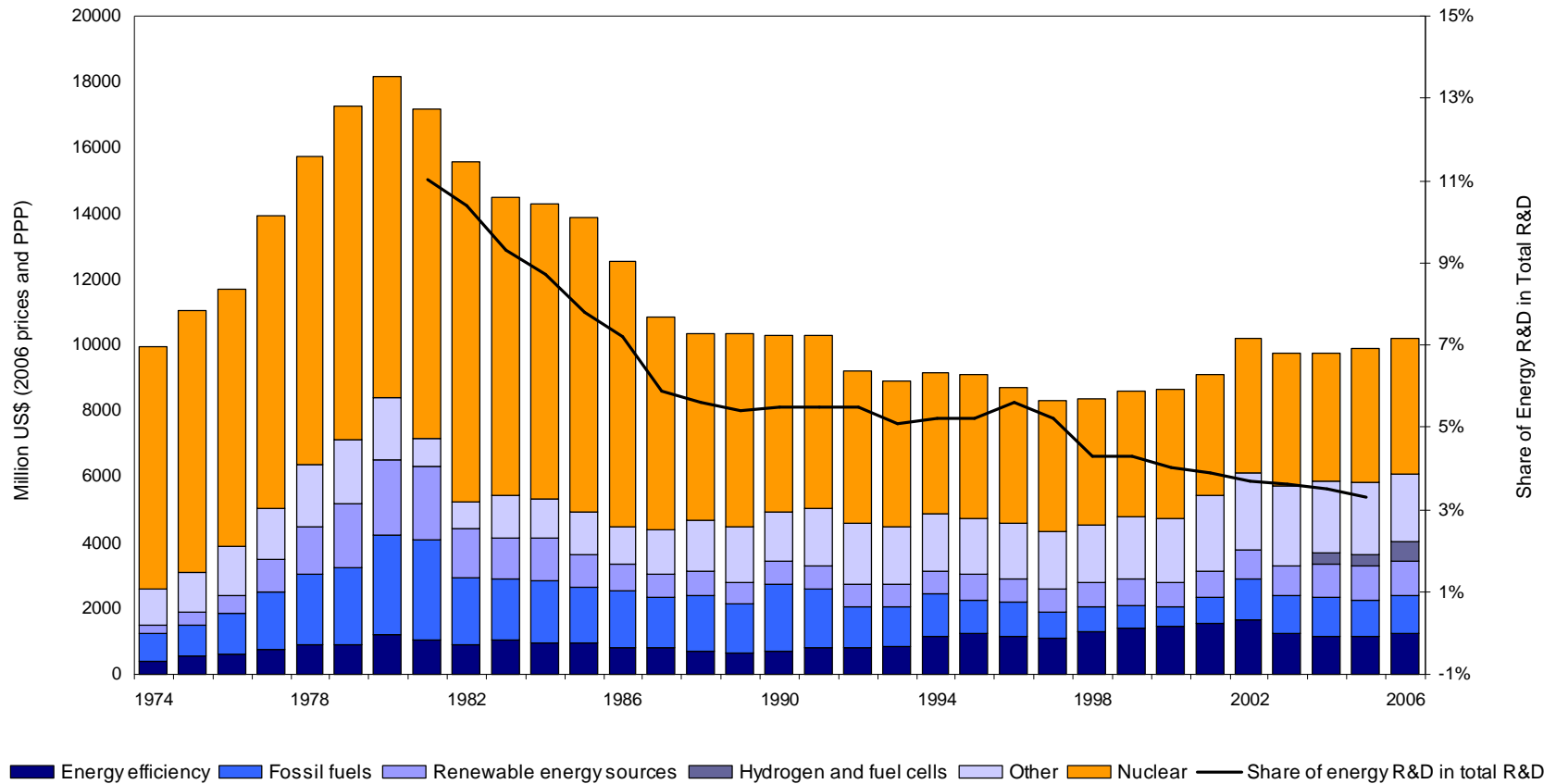
# EU's energy policy JIGSAW



# Possible, in theory... with TECHNOLOGY



# Easy oil tempered investment in RTD



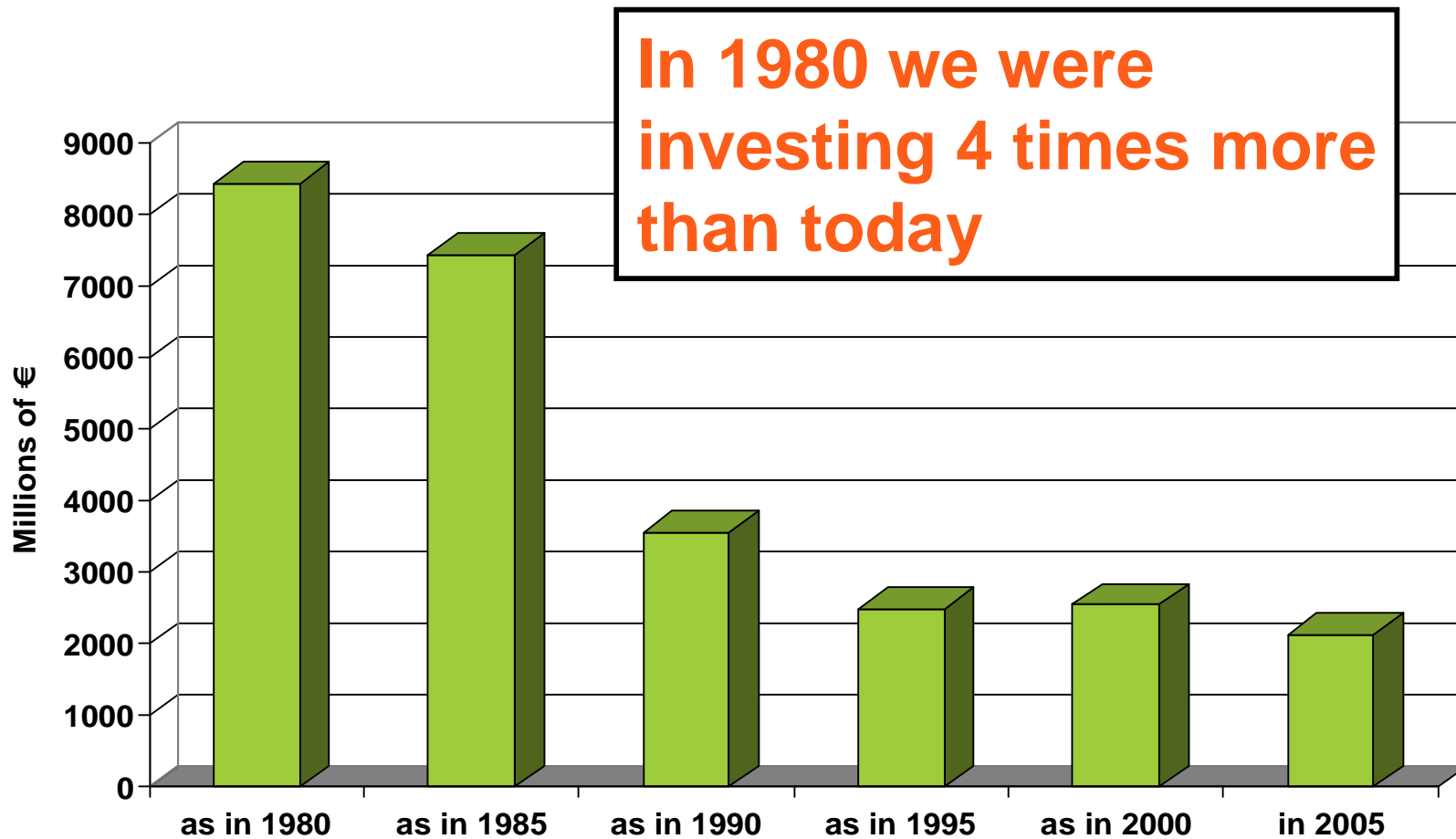
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Source: OECD/ IEA, 2008

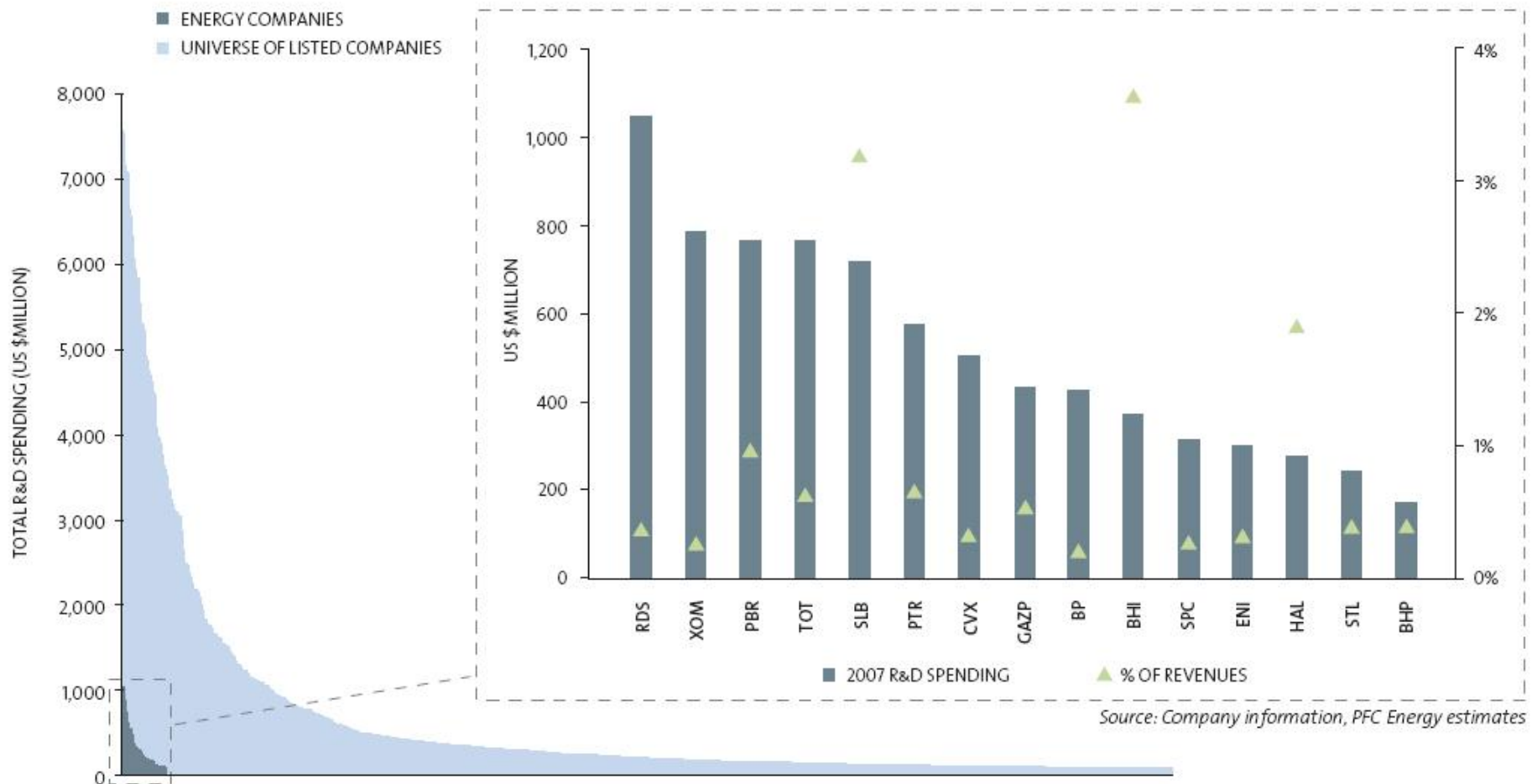
# If we were investing at the same rate as in ..

(Energy RTD investment in the EU)



# Oil and gas industry investment in R&D

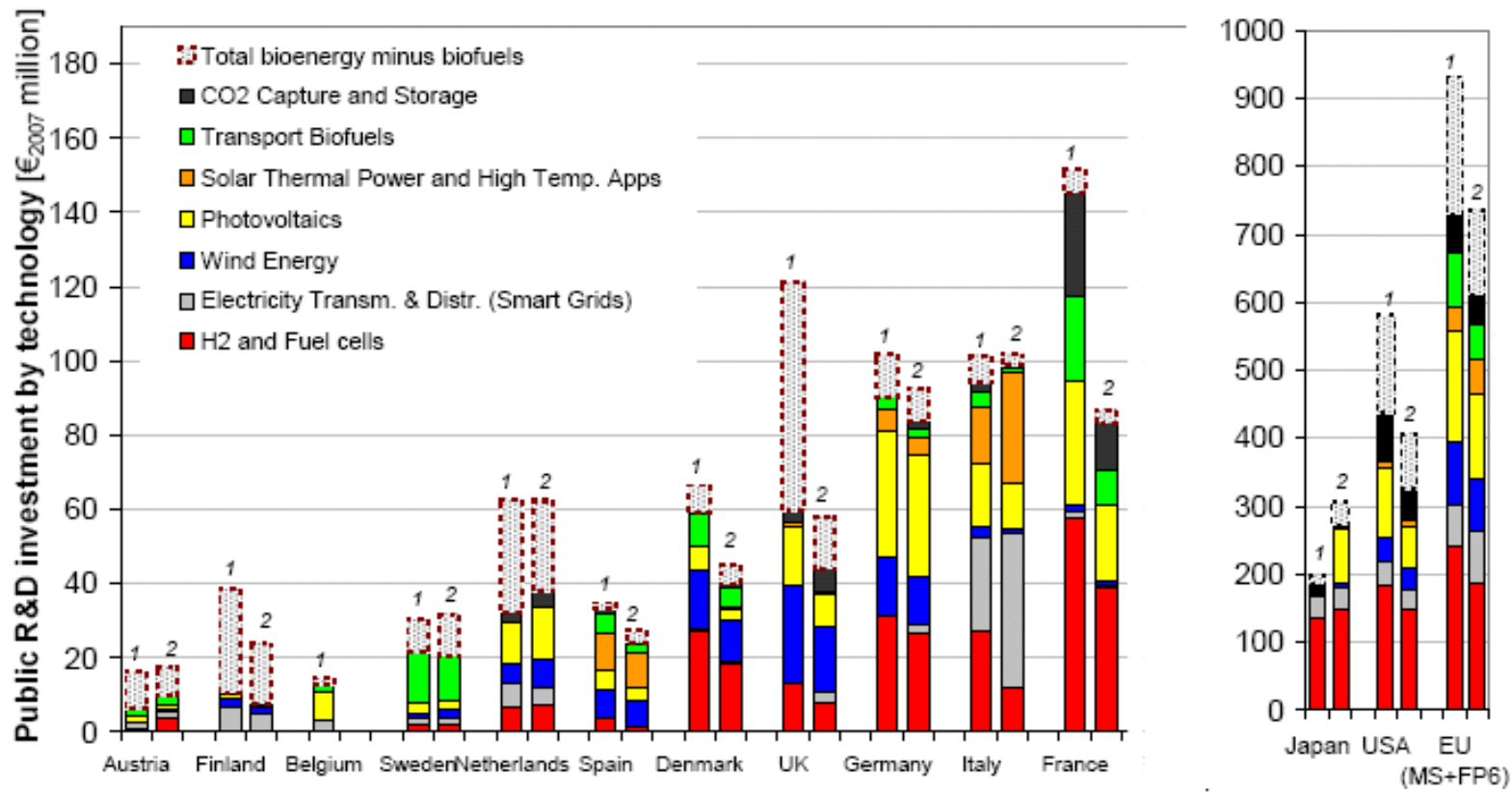
WHICH PFC ENERGY 50 COMPANIES SPEND MOST ON R&D?



Source: Company information, PFC Energy estimates

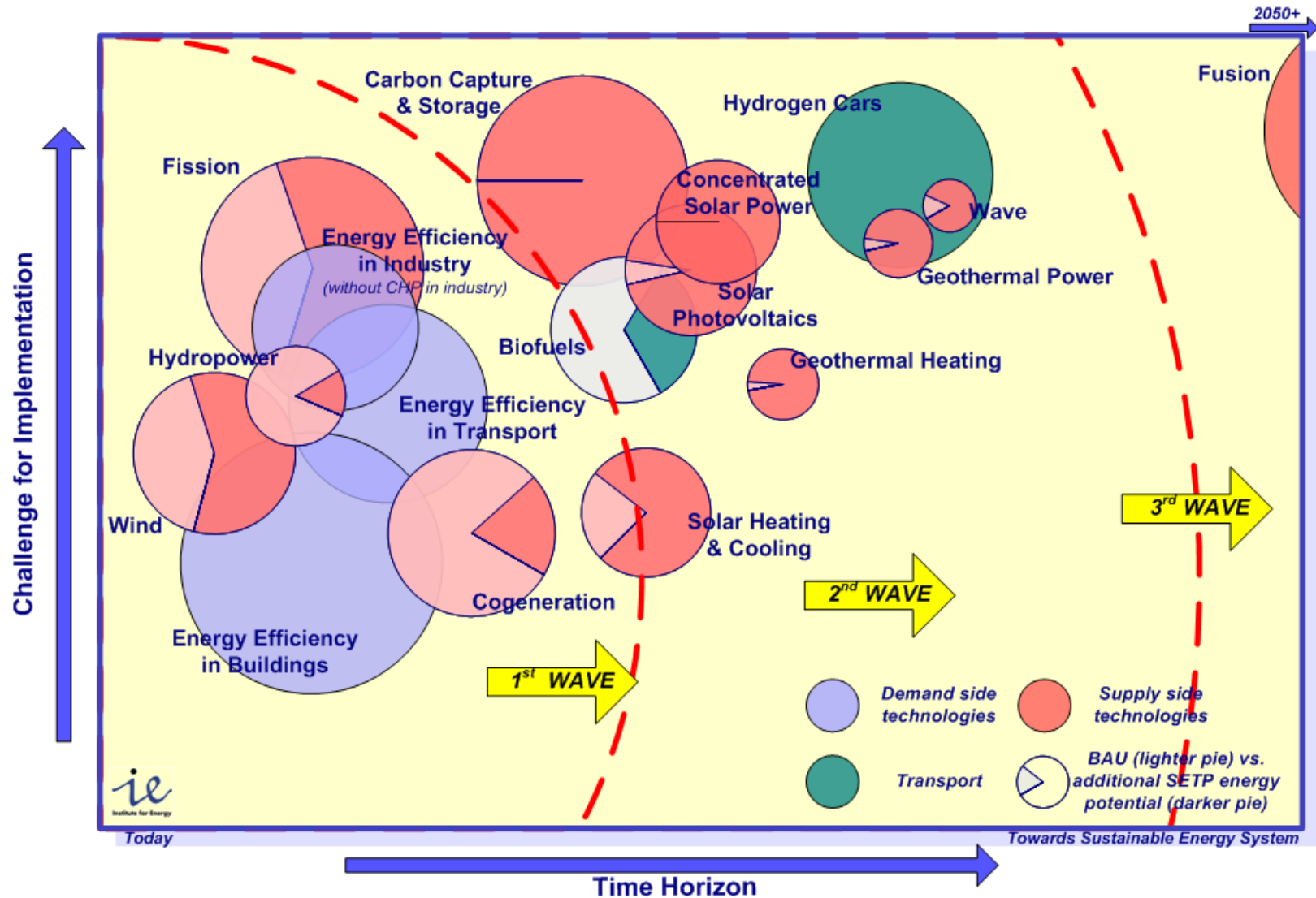
# RTD investment in LCT - EU (2007)

Public R&D spending in non-nuclear SET-P priority technologies  
 1- 2007 data (gap filled)  
 2- Annual average over the period 2002-2007





# Potential of the technologies



# European Energy Infrastructure Package

November 2010

- Likely elements:
  - » Communication on the **priorities for energy infrastructure** development for the 2020/2030 horizon
  - » A document on **progress of the six priority infrastructure actions** proposed under the SER2
  - » Proposal for the **new EU Energy Security and Infrastructure Instrument** comprising of the policy part (revising the TEN-E Guidelines) and the financial part (revising the energy part of the TEN Financial Regulation)
  - » Communication on the **financing of renewable energy** (Article 23(7) of Directive 2009/28/EC)
  - » Communication on the preparation of a blue print for **offshore grids** in the Northern Seas of Europe
  - » Report on the state of play of **smart grids**

# Outline of an offshore grid "blueprint" Communication?

- Summary + discussion of **2020 expectations**
  - » Based on MS' ambitions of offshore wind as expressed in **National Renewable energy Action Plans** (due June 2010) -> "consolidated estimate " of expected OWE cap. in 2020
  - » consistent with 1st ENTSO-E 10 year network dev. plan?
- Discussion of **longer term perspectives**:
  - » Outlook for 2030? substantial deployment?
  - » Discussion of potential for synergies / benefits of more integrated and extensive offshore network?
- The **way forward**
  - » Identify key barriers & actions to overcome them?
  - » Identify ways to support North Seas Countries' Initiative?



For more information:

[http://ec.europa.eu/energy/index\\_en.html](http://ec.europa.eu/energy/index_en.html)

*Thank you for your attention!*



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